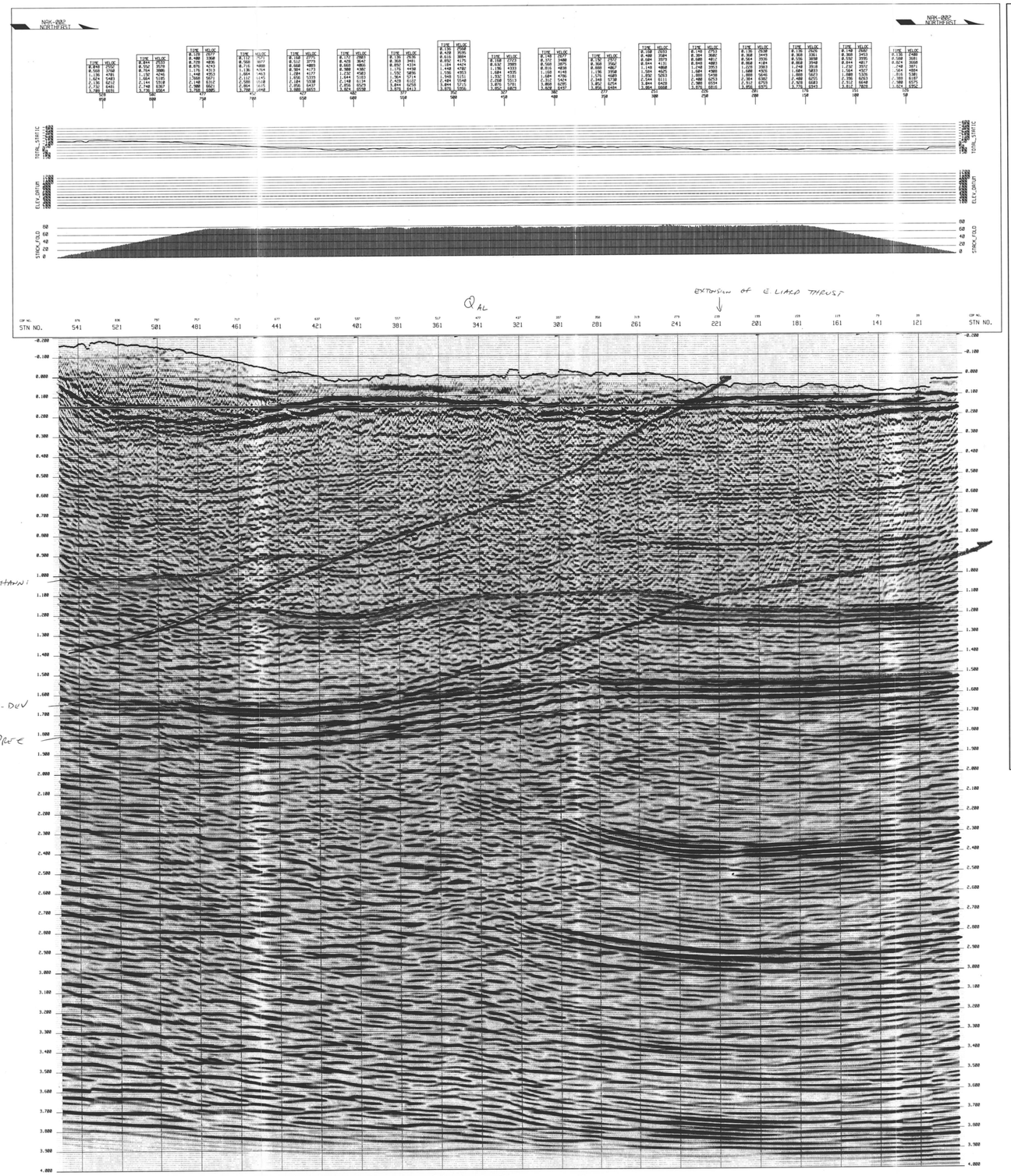
INTERPRETED SECTION JRS



RANGER OIL LTD.

OCT/96

9229-B59-3E

FT. LIARD

LINE NAK-002
SPS: 551-101

PRE STACK MIGRATION

DISPLAY POLARITY
NORMAL

STATICS PARAMETERS
DATUM: 500 M REPL VEL: 4000 M/S

FIELD PARAMETERS

SHOT FOR: RANGER OIL LTD. , MARCH 1996
SHOT BY: GEO-PARVLA , PART1-1254

INSTRUMENTS
RAM/MODEL: I/O II
S.R.: 2 MS LENGTH: 5 SEC
FILTER: 3-207 NOTCH OUT
FORMAT: SEG-D

GEOPHONES
TYPE: OYO GS20DX. 10 HZ
DAMPING: 0.7
NUMBER/GROUP: 9
GROUP LGTH: 20 M

SOURCE
TYPE : VIBROSEIS
MODEL : PELTON II
SWEEP : 10-80 HZ
LENGTH : 12 SEC
DRAG : 30 M

SPREAD
FOLD : 2500 PCT
S.F. INT : 48 M
GRP. INT : 20 M
SOURCE ARRAY: 4 OVER 3M

SPREAD CONFIGURATION
TRACES: 1-120←151-300 TRACE 1 NORTHERST
3010-30←50-3010 M

PROCESSED APRIL 1996 BY

KELMAN SEISMIC PROCESSING

PROCESSING SEQUENCE

DEMULTIPLEX
PROCESS INPUT SAMPLE RATE: 2.0 MS
PROCESS RECORD LENGTH: 4.0 SEC

AMPLITUDE RECOVERY
EXPONENTIAL GAIN CURVE: AE1P(AMENCE(AP(AT)) A=1 A=0 N=2

TRACE EDITING
PHASE COMPENSATION
TYPE: INSTRUMENT AND GEOPHONE

DECONVOLUTION
TYPE: SURFACE CONSISTENT SPIKING
OPERATOR LENGTH: 160 MS
PREWHITENING: 1.0%
DESIGN GATE: 600 - 2000 MS MT 300 OFFSET
2500 - 2500 MS MT 3010 OFFSET
OFFSET RANGE: 0 - 1450 M

PARTIAL SPECTRAL BALANCING
FREQUENCY: 8 - 120 HZ

EQUALIZATION
DESIGN GATE: SAME WINDOW AS DECON

STATICS (REFRACTION)
METHOD: ELI
REFRACTOR SPACING: EVERY SHOT
DATUM ELEVATION: 500 M
WEATHERING VELOCITY: 760 M/SEC
REPLACEMENT VELOCITY: 4000 M/SEC

SORT
TO COMMON DEPTH POINT

VELOCITY ANALYSIS
TYPE: CONSTANT PERCENTAGE REMOVOUT

STATICS (RESIDUAL)
TYPE: AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW: 600 - 3000 MS
MAXIMUM SHIFT: +/- 30 MS
CORRELATIONS PER TRACE: 15
NUMBER OF ITERATIONS: 2

VELOCITY ANALYSIS
TYPE: CONSTANT PERCENTAGE REMOVOUT

STATICS (RESIDUAL)-SECOND PASS
TYPE: AUTOMATIC SURFACE CONSISTENT
CORRELATION WINDOW: 400 - 3000 MS
MAXIMUM SHIFT: +/- 16 MS
CORRELATIONS PER TRACE: 15
NUMBER OF ITERATIONS: 2

PRE-STK MIG. VEL. ANALYSIS
TYPE: CONSTANT PERCENTAGE REMOVOUT

MUTE PATTERN
DISTANCE: -400 440 1500 5000 M
TIME: -300 400 1200 2000 MS

EQUALIZATION
DESIGN WINDOW: 500 MS AGC

FULL PRE-STACK MIGRATION
TYPE: KIRCHHOFF SUMMATION
DATUM REFERENCED- TO PLOTTED WEATHERING REPLACED SURFACE-
SEPARABLE AT SHOT AND RECEIVER

STACK
TRACE SUPRESSION: 3:1 THRESHOLD
PCT: 75

FILTER
FREQUENCY: 10/15 - 45/55 HZ

EQUALIZATION
DESIGN WINDOW: 600 MS AGC

FINAL DISPLAY

1KM BLIP INCREMENT

DISPLAY PARAMETERS
HORIZONTAL: 48.0 TRACES/INCH VERTICAL: 5 INCHES/SECOND
400 M/INCH 400 M/INCH

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PROJ. NO. 9229-B59-2E
LINE NO. NAK-002
PART NO. 1 OF 1
R.R. 8X